DENRYO DIAsine® Quick Start Guide Ver.1.03E
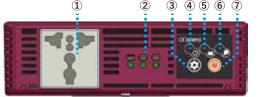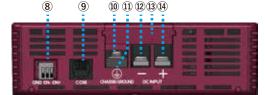
This document is a simple introduction for using DIAsine® series pure sine wave inverter. For more detail, please refer the user's manual from our website (refer to the QR code on the right).

CE | RoHS

| ⚠ | **Important Safety Information** | 🚫 Do Not Disassemble | 🚫 No open flame | 🚫 Keep Dry | 🚫 Do Not Stack | ⚠ Danger High Temperature | Keep Air Ventilation |

1. Features

Front Panel   **Rear Panel**

①	AC outlet	②	AC output terminal	③	Setup button	④	Status LED
⑤	Battery LED	⑥	Load LED	⑦	Power ON/OFF button	⑧	Remote connector
⑨	Optional port	⑩	Grounding terminal	⑪	Reverse polarity connection warning LED		
⑫	DC input terminal (-)	⑬	Terminal cover	⑭	DC input terminal (+)		

*For detailed operation of each part please refer to the user's manual.

2. Button Operation and LED Indication

(1) Button Operation

Status	Setup button	Power ON/OFF button
Standby	Indication of the setting (3sec) Long press: move to setup mode	Start the output
Output AC	Indication of the setting (button down)	Stop the output
Setup mode	Select the setting Long press: change the setting item	Finish setup, move to standby mode

(2) Normal AC LED Indication

LED color	Status LED	Battery LED*		Load LED
Orange	Standby	---		---
Yellow blink	Over temperature alarm	Input voltage	10.5-11.5Vdc	>100%
Yellow	---		11.5-12.0Vdc	70-100%
Green	Power ON		12.0-14.0Vdc	40-70%
Blue	Power ON Remote mode		14.0-16.5Vdc	0-40%
Purple	---		16.5-17.0Vdc	---

* All voltage listed are for nominal 12 Volt model. Multiply the voltage by 2 for 24 Volt model or by 4 for 48 Volt model.

(3) Error LED Indication

LED color	Status LED	Battery LED	Load LED
Red blink	---	Input under voltage	AC output failure
Red solid	Over temperature	Input over voltage	Over load, Output short circuit

3. Instruction

(1) DC wiring

Fuse

a. Place the inverter on a flat surface and remove the terminal cover.
*For installation, please refer to the user's manual.

b. Wiring the input terminal. Connect the grounding terminal to earth ground if necessary. When wiring finished, please return the terminal cover.
*Terminal width 9mm, screw M4
*Recommend wire size 8AWG-

c. Put the fuse between battery and inverter on the positive side. The LED in front of grounding terminal will show red if reverse polarity, please correct the wiring again.

(2) Setup

a. Press and hold the setup button (for 2 seconds or more).

b. After the buzzer sound, only the status LED lights up. Press the setup button to change the setting value, or long press the setup button to change the setting item.

c. Press and hold the power button (more than 2 seconds). All LEDs will light up in the color you set and the settings will be saved.

■ Setup mode LED Indication

LED color	Status LED		Battery LED	Load LED	
	Mode	Frequency	Output voltage	Buzzer	Brightness
Green	Low Power[*1][*2]	50Hz[*1]	200Vac	ON[*1]	Normal[*1]
Yellow	Low Power[*2]	60Hz	220Vac	ON	Low
Blue	Normal	50Hz	230Vac[*1]	OFF	Normal
Purple	Normal	60Hz	240Vac	OFF	Low

[*1] Default Setting.
[*2] The low power mode suppresses the power consumption when a low load is using. Please refer to the user's manual for more detail.

(3) Start and Stop

Press the power button. After the startup sound, output starts. The default setting is Low Power Mode, output 230 Vac, 50Hz, buzzer ON, LED normal brightness mode.

Connect the load to the AC outlet. Press the power button to stop the output and enter the standby mode.

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